

ELV SERIES

- SMD TYPE. Reflow Soldering is available. [Series Code=L](#)
- Life 2000 hours at 85°C
- Available For High Density Mounting

Characteristics

Voltage Range	4 to 100 VDC									
Capacitance Range	0.1 to 1000uF									
Temperature Range	-40 to +85°C									
Capacitance Tolerance	+20% -20% (at 20°C, 120Hz)									
Leakage Current	I≤0.01CV or 3uA, whichever is greater 2 minutes after Rated Voltage applied									
Dissipation Factor (tan δ)Max	Rated Voltage (V)	4	6.3	10	16	25	35	50	63	100
	(tan δ) Dφ4~6.3	0.4	0.26	0.22	0.18	0.16	0.13	0.12	-	-
	(tan δ) Dφ8~10	-	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10
(at 20°C, 120Hz)										
Stability at Low Temperature	Impedance ration at 120Hz									
	Rated Voltage (V)	4	6.3	10	16	25	35	50	63	100
	Z-25°C/Z 20°C	7	4	3	2	2	2	2	2	2
Z-40°C/Z 20°C	15	8	8	4	4	3	3	3	3	
Load Life	After the rated voltage has been applied for 2000 hours at 85°C	Capacitance change		Within ±25% of initial value						
		D.F. tanδ		200% of less of initial specified value						
		Leakage current		Initial specified value of less						
Shelf Life	After storage for 500 hours at 85°C, with no voltage applied and being stabilized at +20°C, Capacitor shall meet the limit specified in load life.									

Case size & Maximum Ripple Current

mA rms 85°C 120Hz

UF	4		6.3		10		16		25		35		50		63		100	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1													A	1.0				
0.22													A	2.0				
0.33													A	2.8				
0.47													A	4.0				
1													A	8.4				
2.2													A	13				
3.3													A	17				
4.7								A	16	A	18	A	20				E	80
10					A	20	A	23	A	27	B	29	C	33			E	90
22			A	28	A	33	B	37	C	42	C	46	D	80	E	75	E	130
33	A	28	A	37	A	41	C	49	C	52	C	58	E	200	E	160	F	170
47	A	33	B	45	C	52	C	58	C	60	D	115	E	240	E	170		
100	B	56	C	70	C	76	C	86	D	160	E	280	F	500	F	240		
220	C	96	D	150	D	190	D	290	E	300	F	570						
330	D	145	D	210	E	330	E	330	F	680								
470	E	220	E	380	F	680	F	690										
1000	F	500	F	700														

Diagram of dimensions

SIZE	Dφ	L	A	C	B	W	P
A	4	5.5	4.3	4.3	5.1	0.5~0.8	1.0
B	5	5.5	5.3	5.3	5.9	0.5~0.8	1.4
C	6.3	5.5	6.6	6.6	7.2	0.5~0.8	2.0
D	8	6.5	8.3	8.3	9.0	0.5~0.8	2.2
E	8	10.5	8.3	8.3	9.0	0.8~1.1	3.1
F	10	10.5	10.3	10.3	11.0	0.8~1.1	4.5

